	Application No.	Applicant(s)
Notice of Allowability	10/840,049	HWU ET AL.
	Examiner	Art Unit
	David Nhu	2818
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT (of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 5/5/04. 2. The allowed claim(s) is/are 1-20. 3. The drawings filed on 05 May 2004 are accepted by the Ex	(OR REMAINS) CLOSED in this ap or other appropriate communicatio GHTS. This application is subject t and MPEP 1308.	oplication. If not included not be mailed in due course. THIS
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements		
noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the depose attached Examiner's comment regarding REQUIREMENT for the sheet of the she	t be submitted. on's Patent Drawing Review (PTO s Amendment / Comment or in the 0 84(c)) should be written on the drawing header according to 37 CFR 1.121 sit of BIOLOGICAL MATERIAL	0-948) attached Office action of the back) of (d). must be submitted. Note the
Attachment(s) 1: ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0: Paper No./Mail Date	6. ☐ Interview Summary Paper No./Mail Da 8), 7. ☐ Examiner's Amend 8. ☑ Examiner's Statem 9. ☐ Other	ate

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REASONS FOR ALLOWANCE

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1. Claims 1-20 are allowed.

2. The following is an examiner's statement of reasons for allowance: None of the references of record teaches or suggests as cited in claims 1, 12: exposing the process surfaces to an alkaline solution for a period of time sufficient to chemically modify the newly formed process surfaces prior to substantial exposure of the process surfaces to a contaminating or oxidizing atmosphere; placing the semiconductor wafer in a semiconductor wafer holding environment in queue for subsequent semiconductor manufacturing processes (as cited in claim 1); subjecting the exposed process surfaces substantially immediately following the semiconductor manufacturing process to an ammonia free alkaline solution for a period of time sufficient to at least partially hydroxylate the exposed process surfaces (as cited in claim 12)

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

CONCLUSION

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Jolley (6,217,667 B1): Method for Cleaning Copper Surfaces.
- 5. Any inquiry concerning this communication on earlier communications from the examiner should be directed to David Nhu, (571)272-1792. The examiner can normally be reached on Monday-Friday from 7:30 AM to 5:00 PM.

The examiner's supervisor, David Nelms can be reached on (571)272-1787.

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The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956

David Nhu

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May 11, 2005

DAVID NHU PRIMARY EY